

FIG 1A

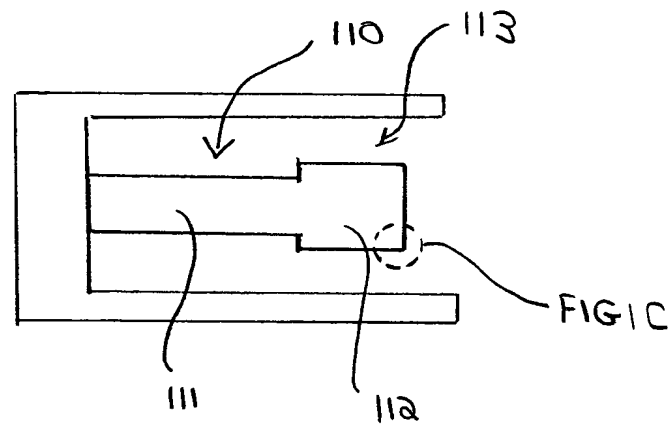
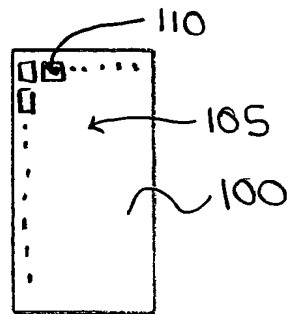


FIG 1B

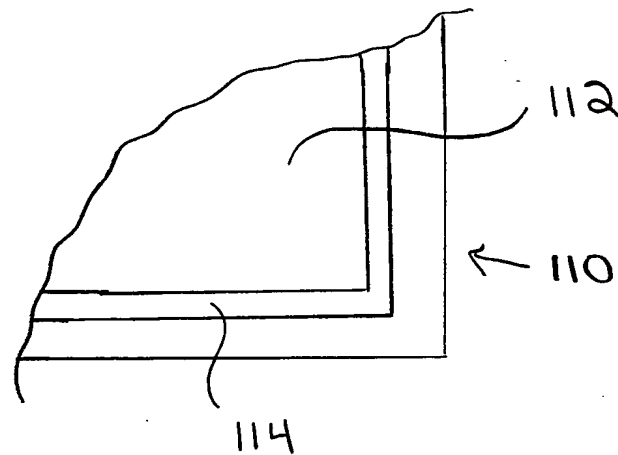


FIG 1C

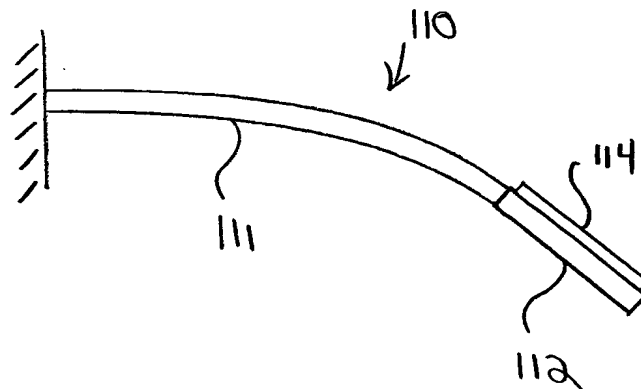


FIG 1D

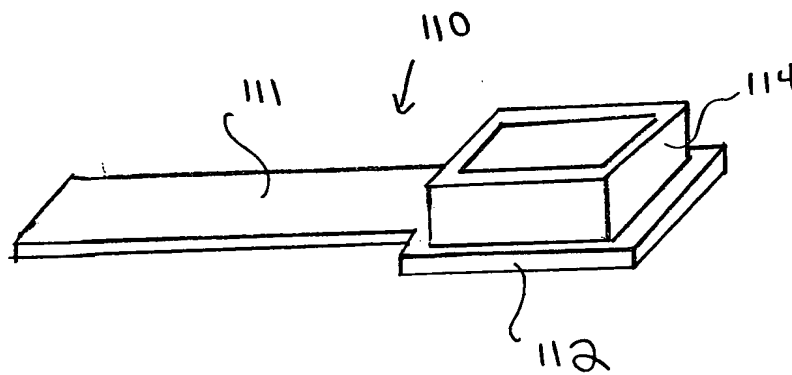


FIG 1E

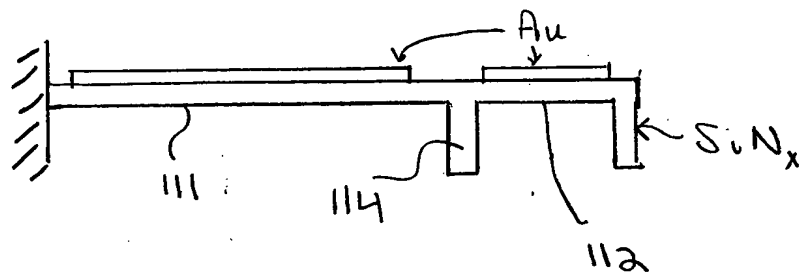


FIG 1F

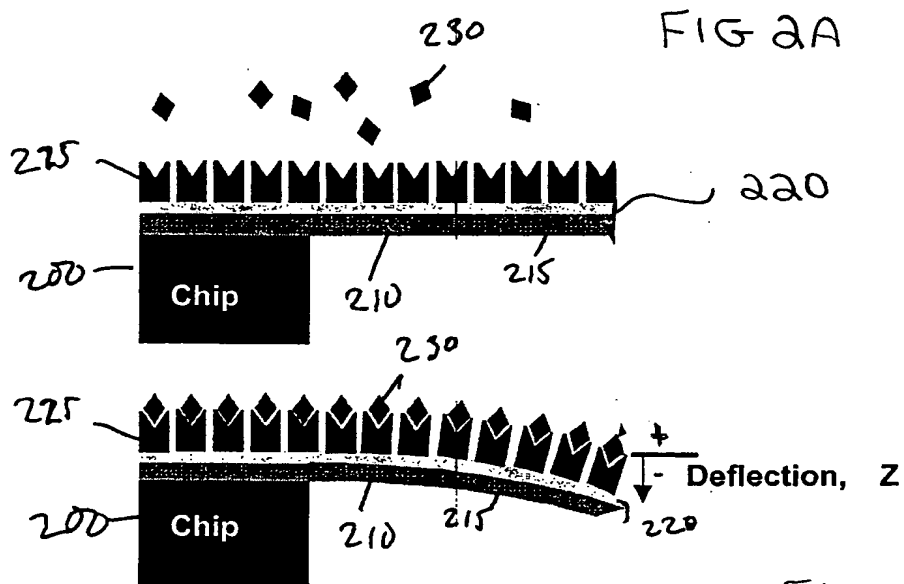
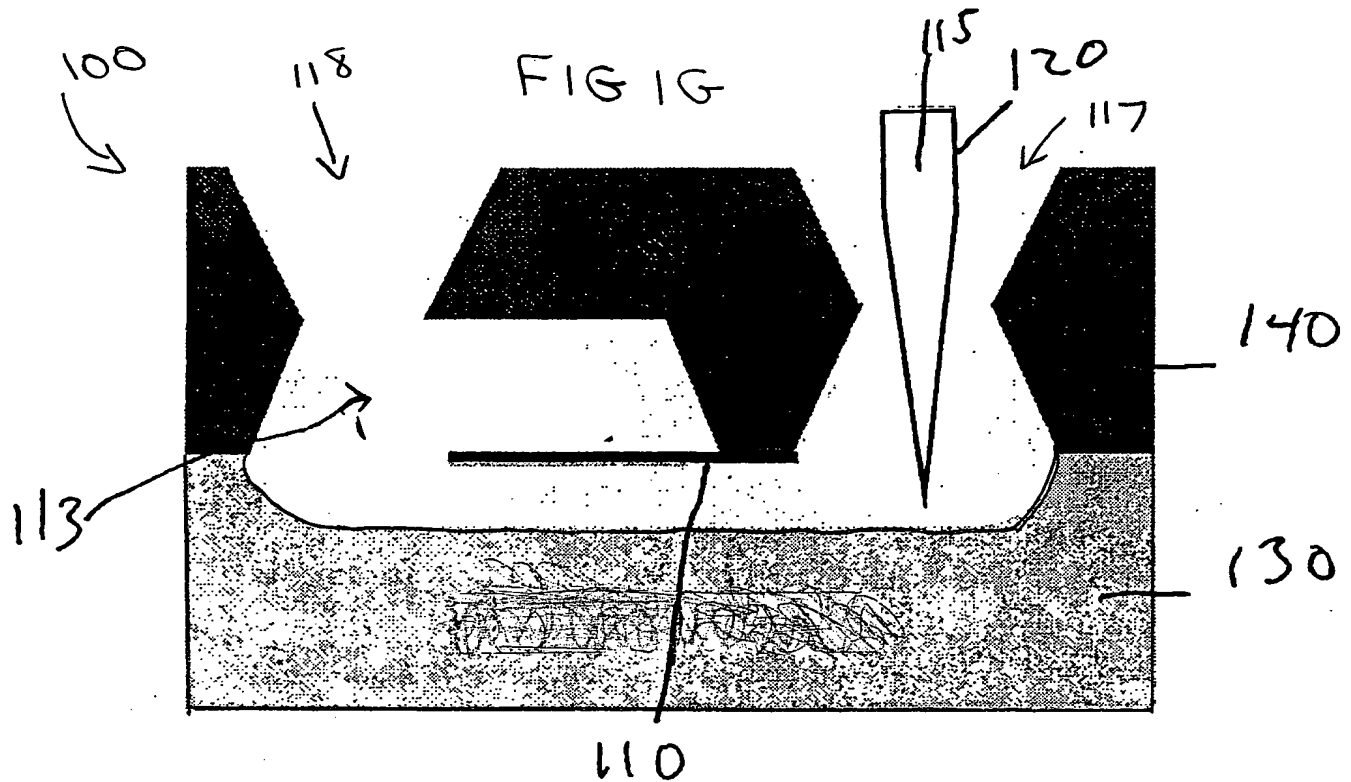


FIG 3A

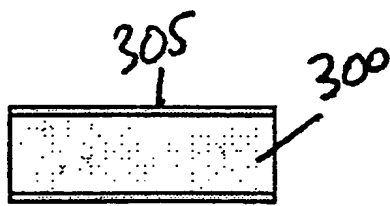


FIG 3B

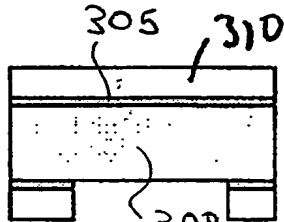


FIG 3C

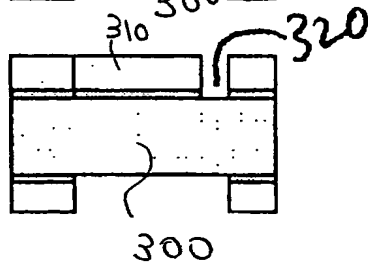


FIG 3D

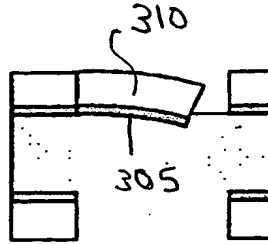


FIG 3E

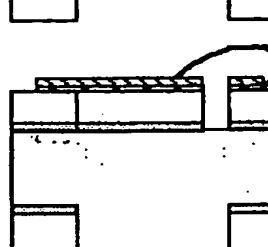


FIG 3F

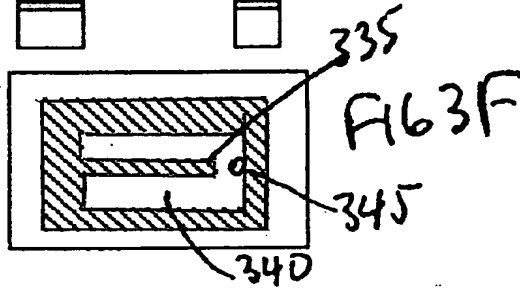
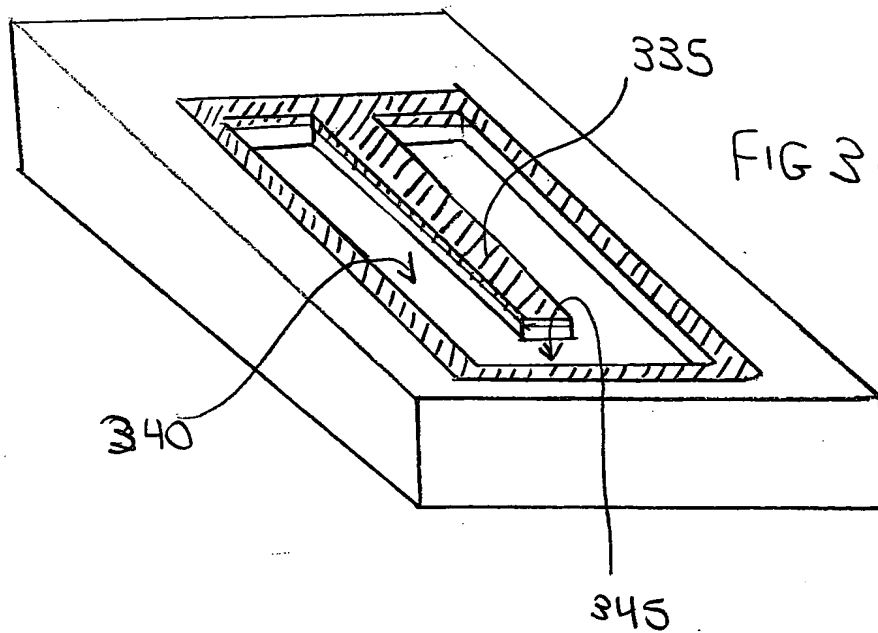


FIG 3G



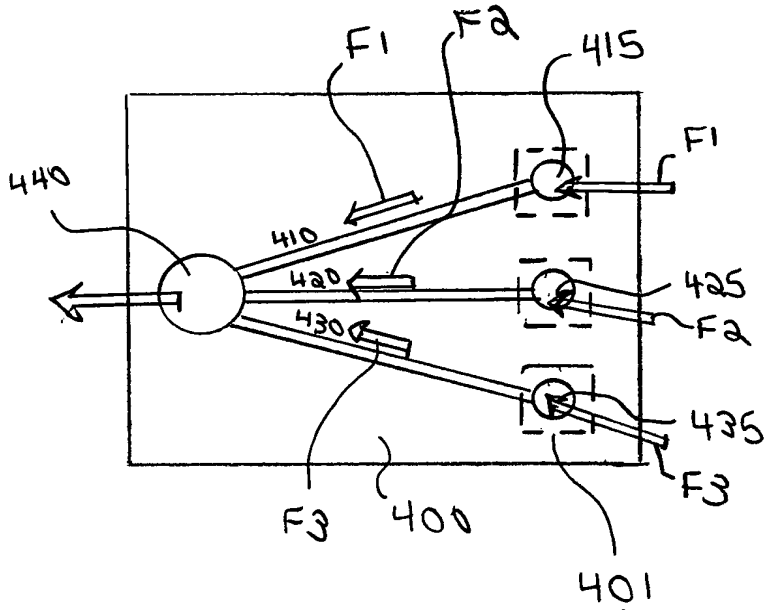


FIG 4A

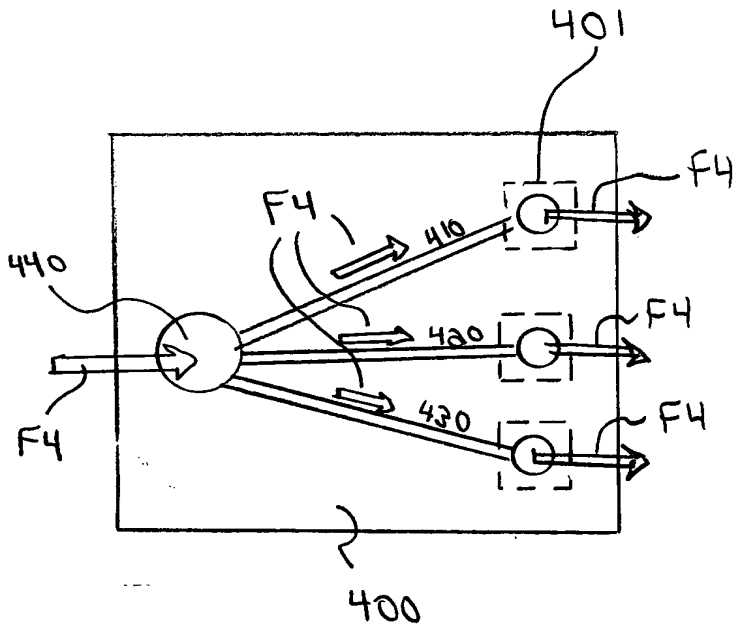
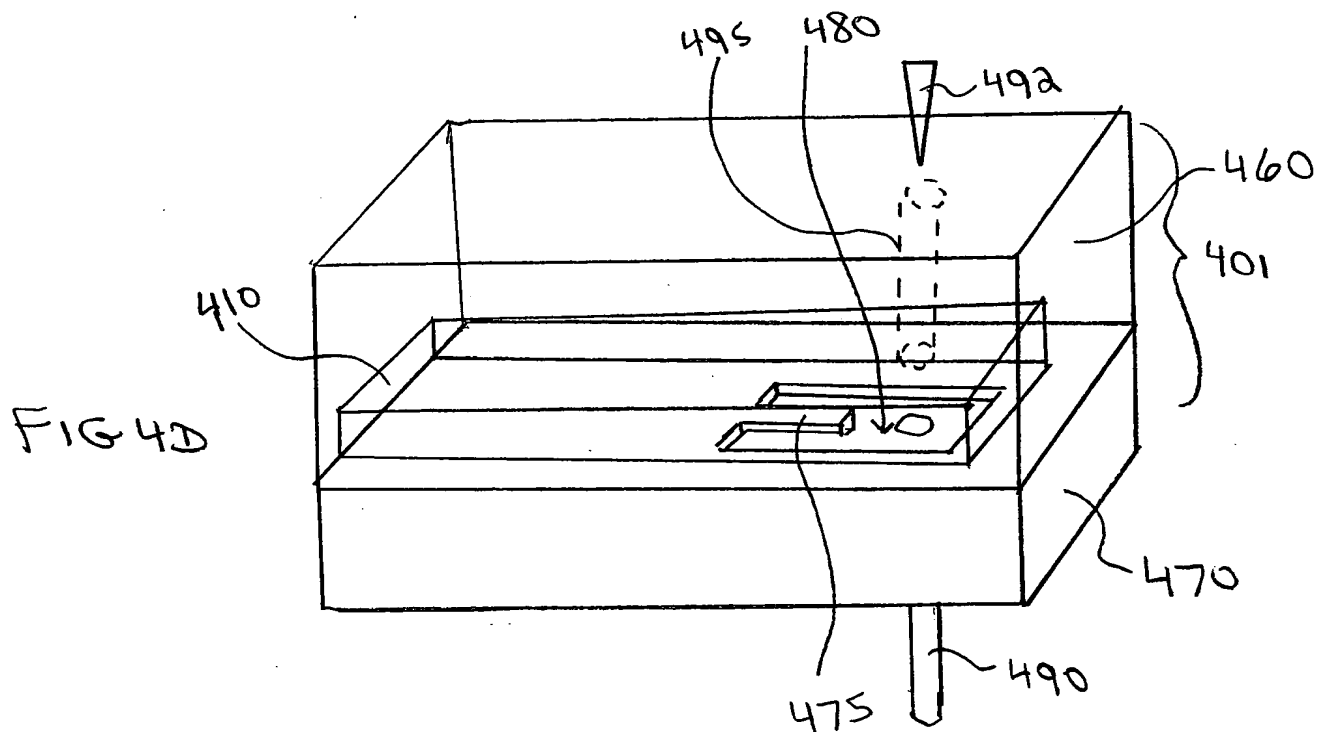
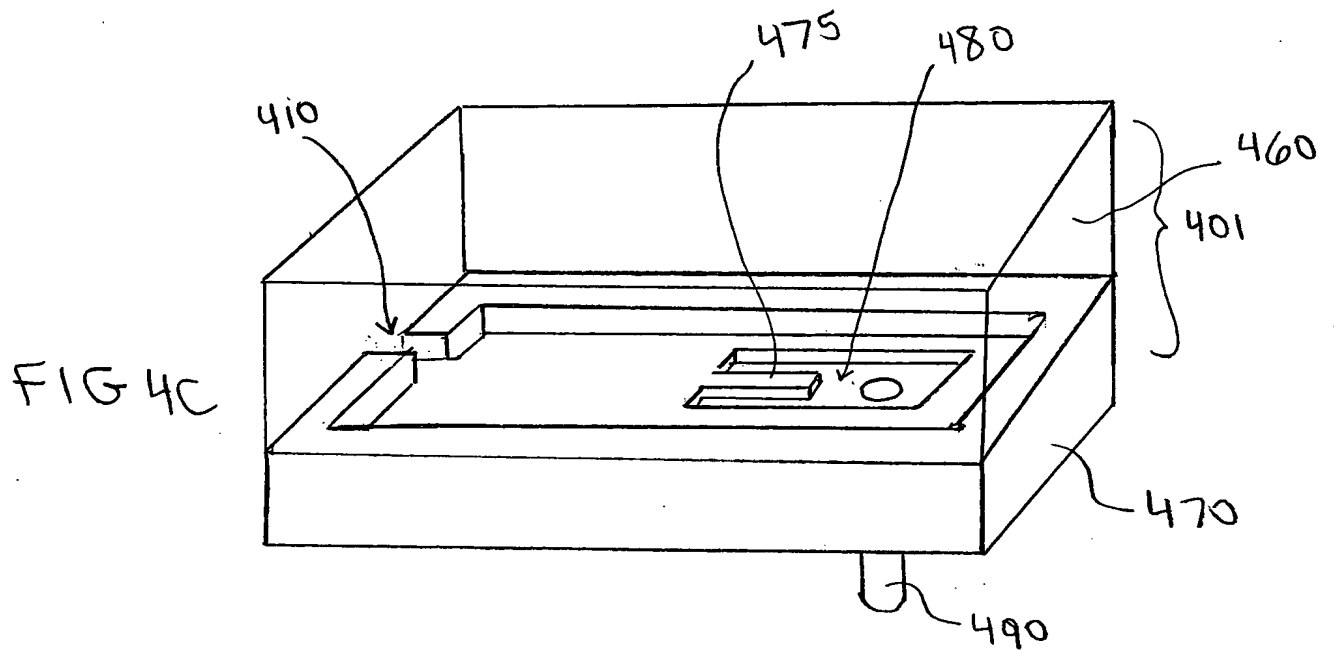
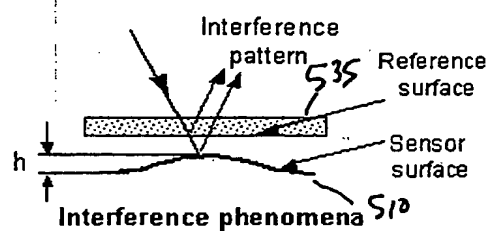
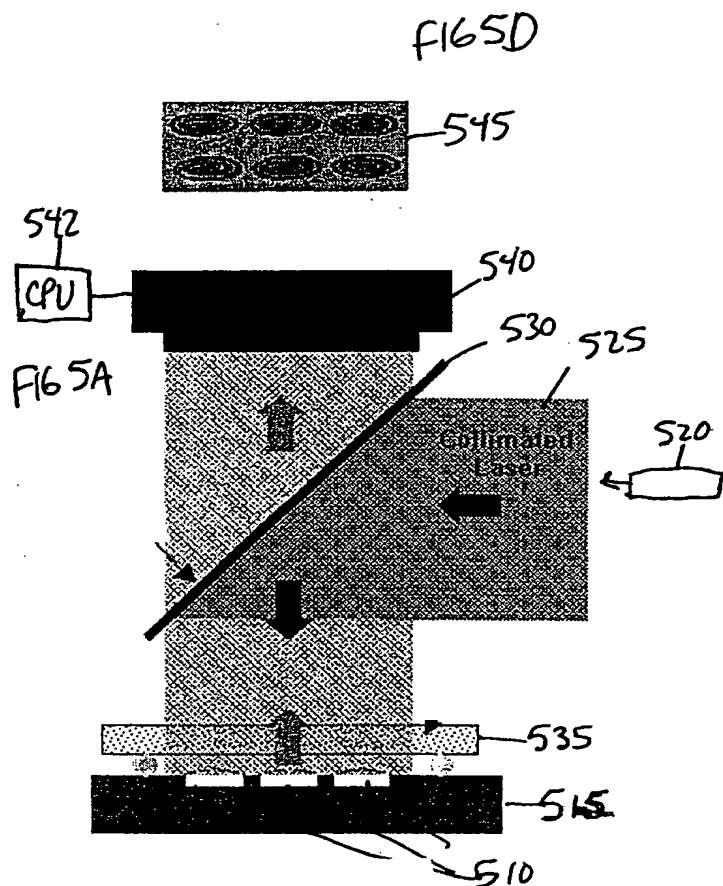
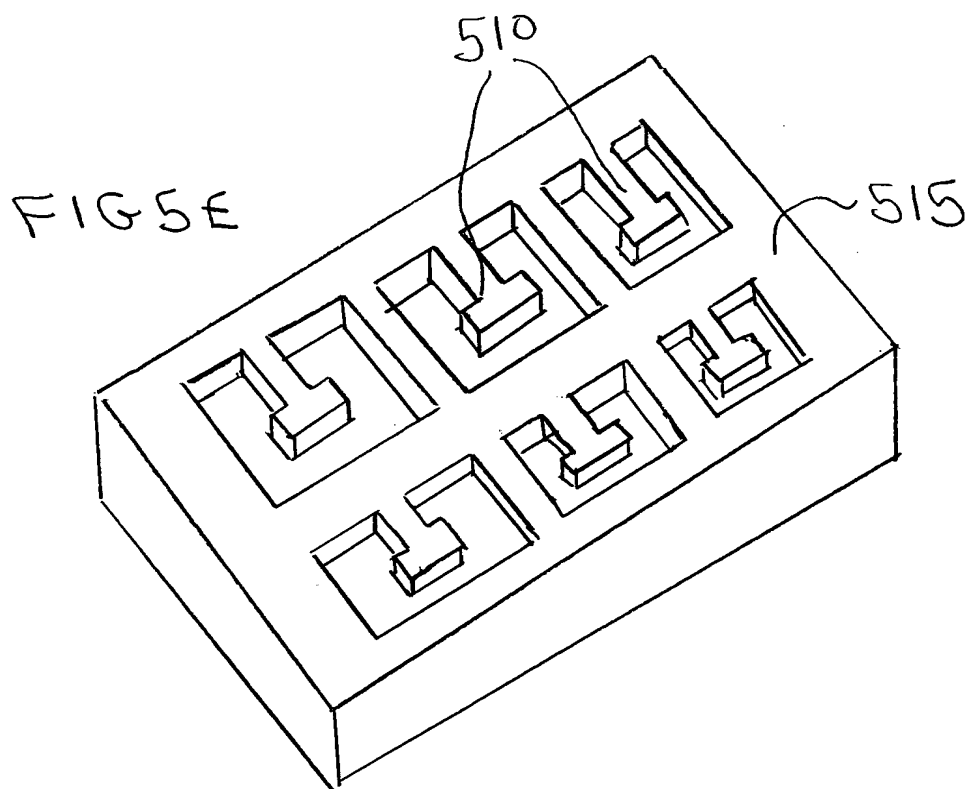


FIG 4B





Fringe Intensity (I) vs. deflection (h)



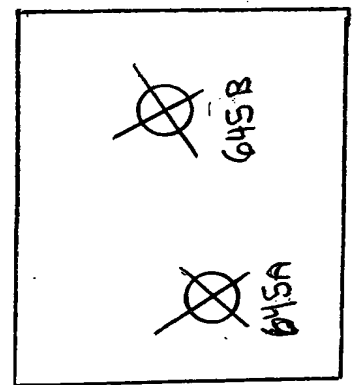
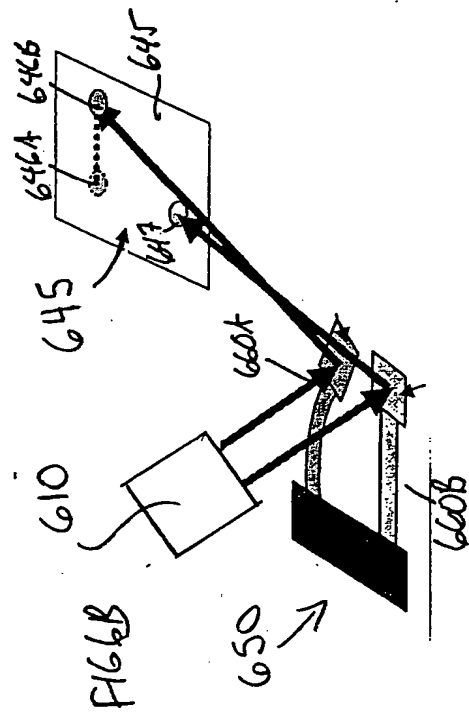
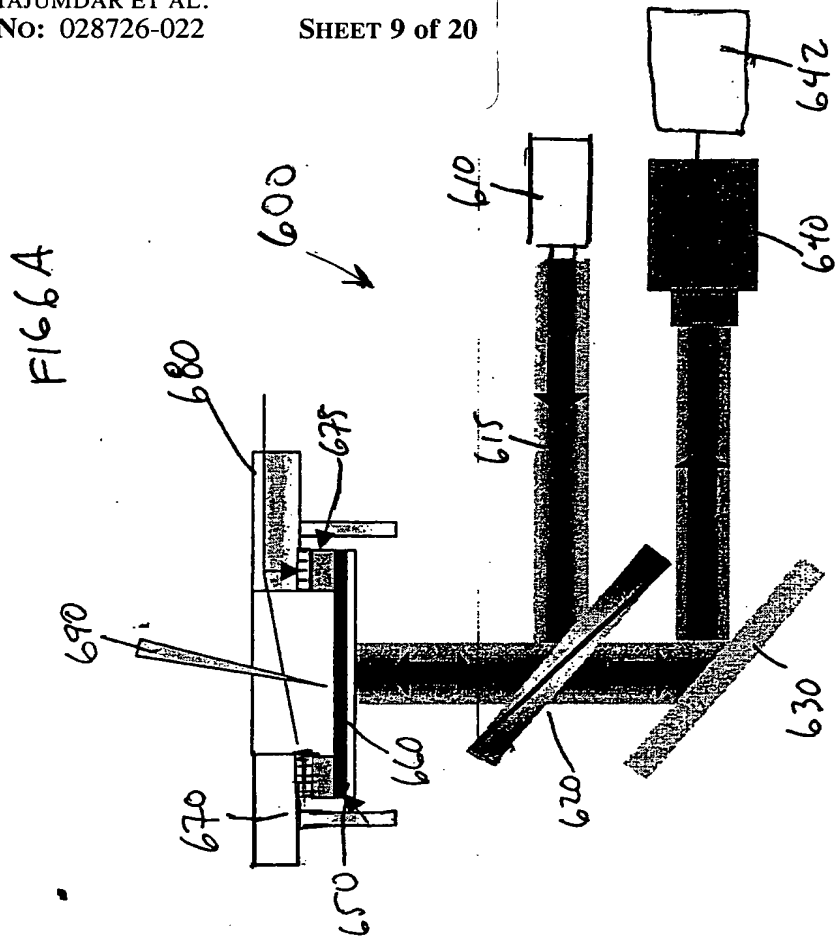


FIG 6C

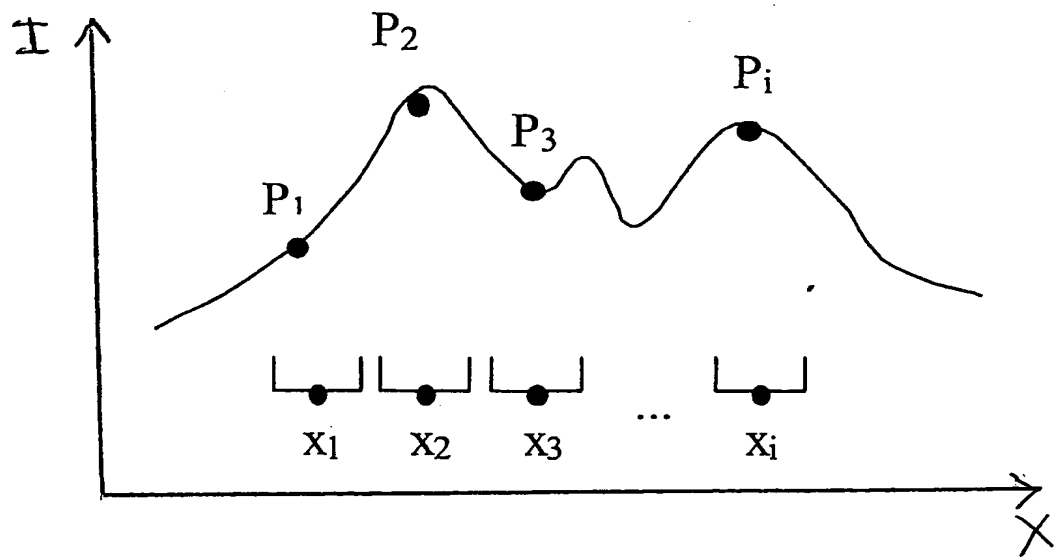
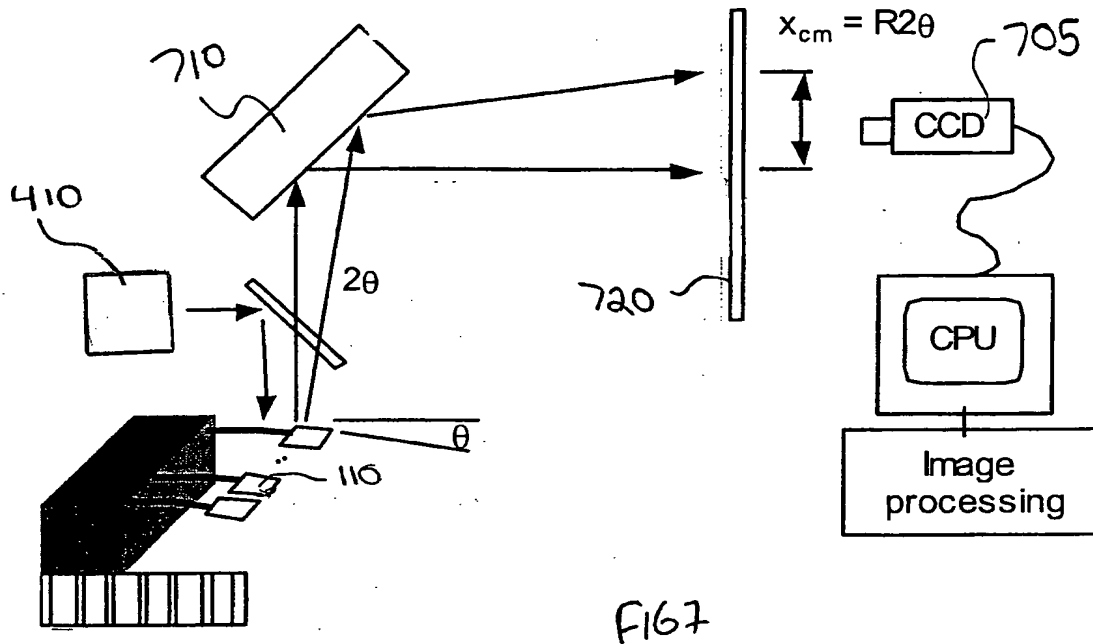


FIG-8

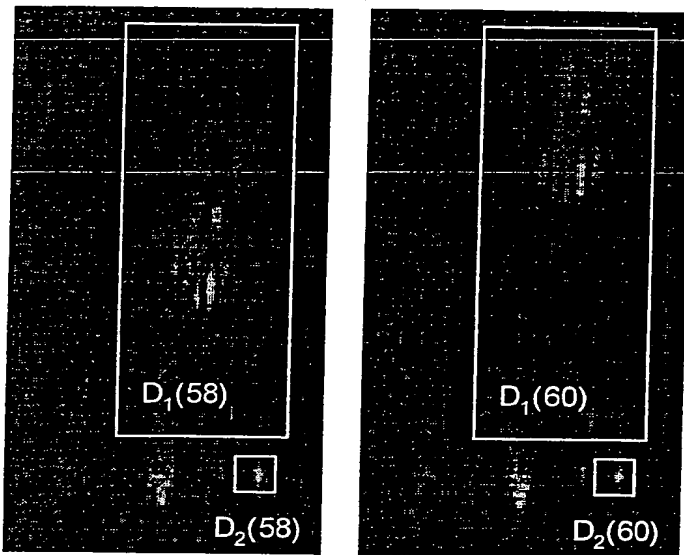


FIG 9

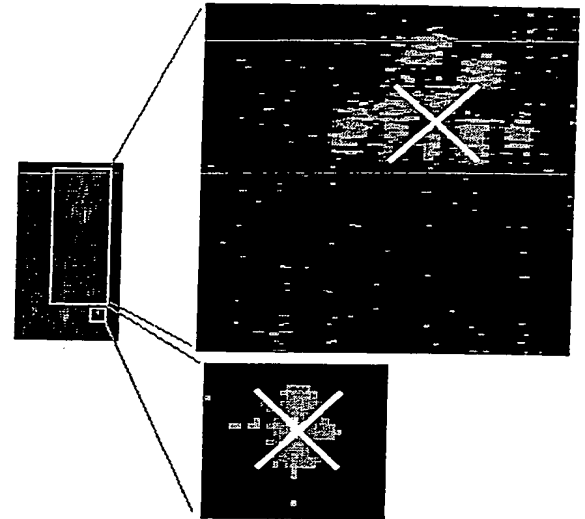


FIG 10

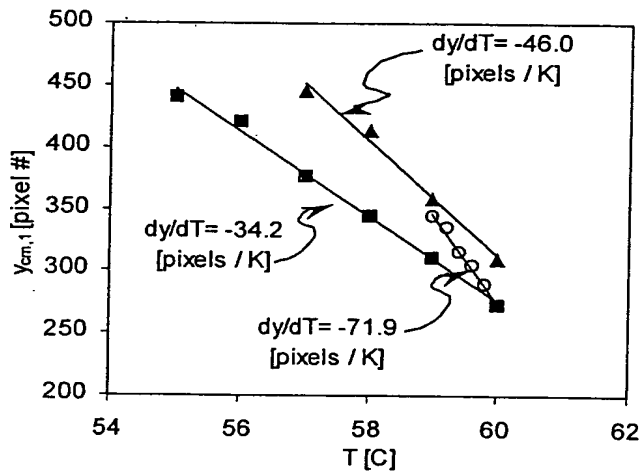


FIG 11A

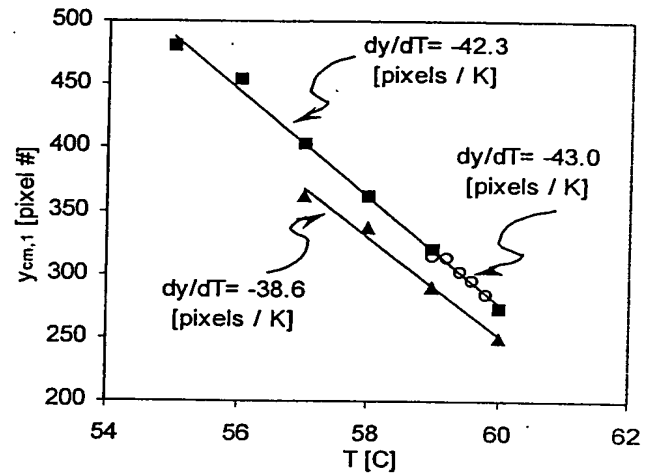


FIG 11B

FIG 13

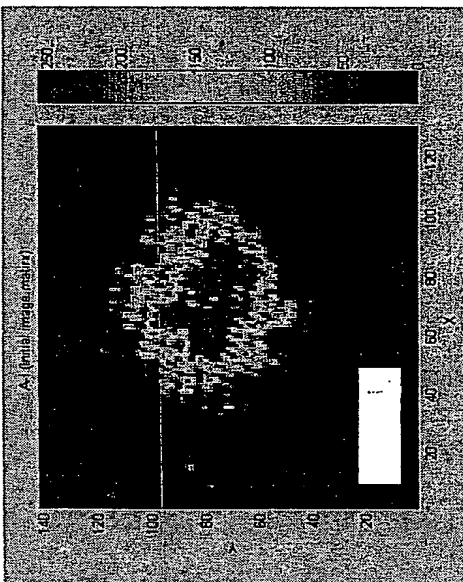
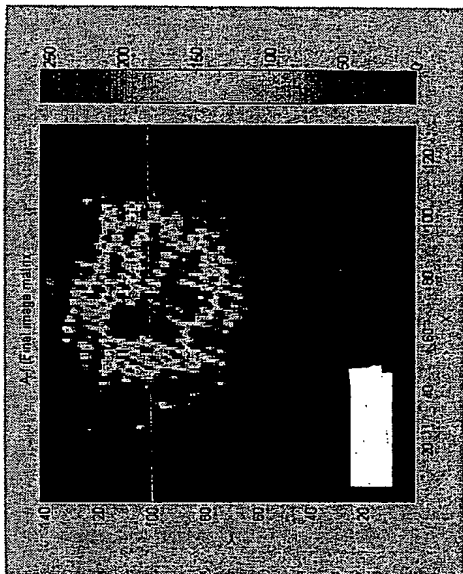


FIG 12

FIG 15

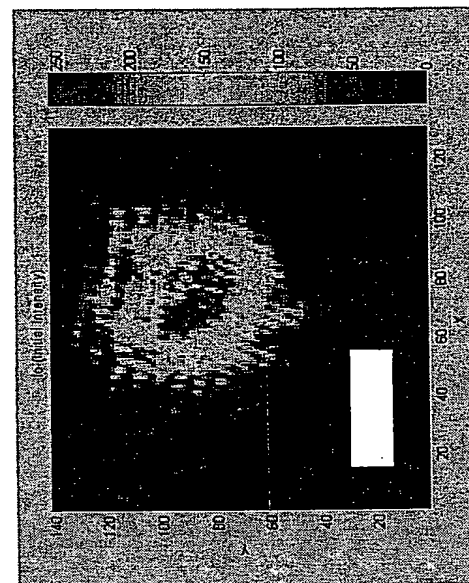
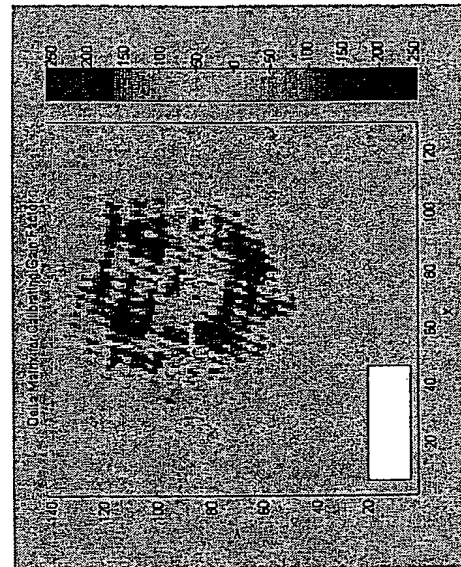


FIG 14

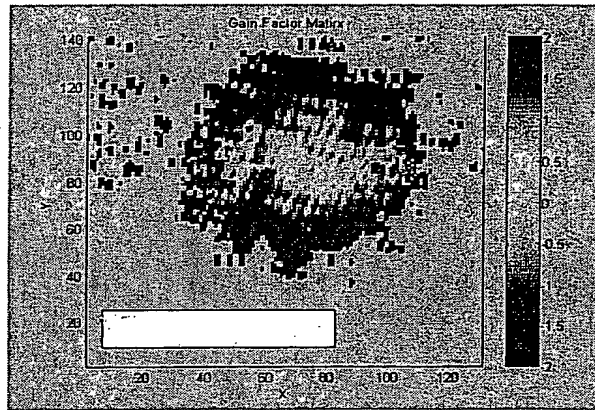


FIG 16

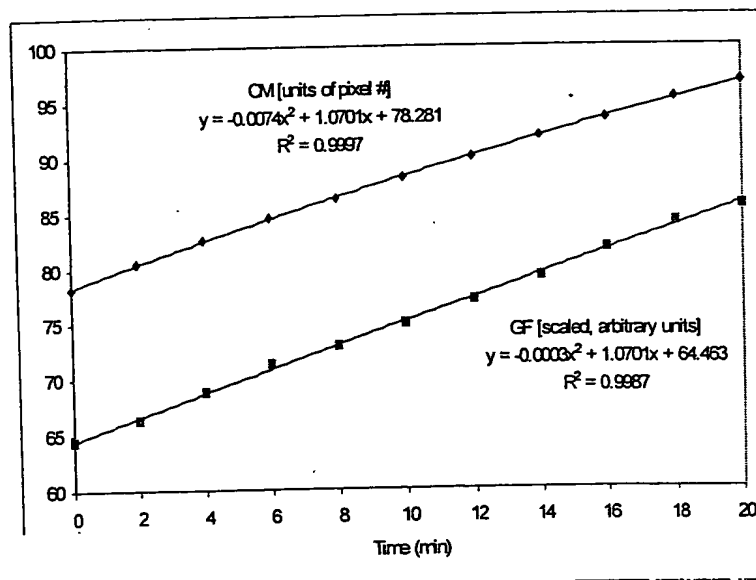


FIG 17

FIG 18

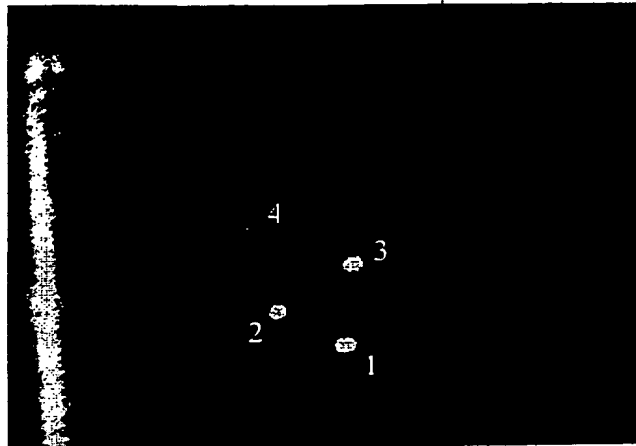
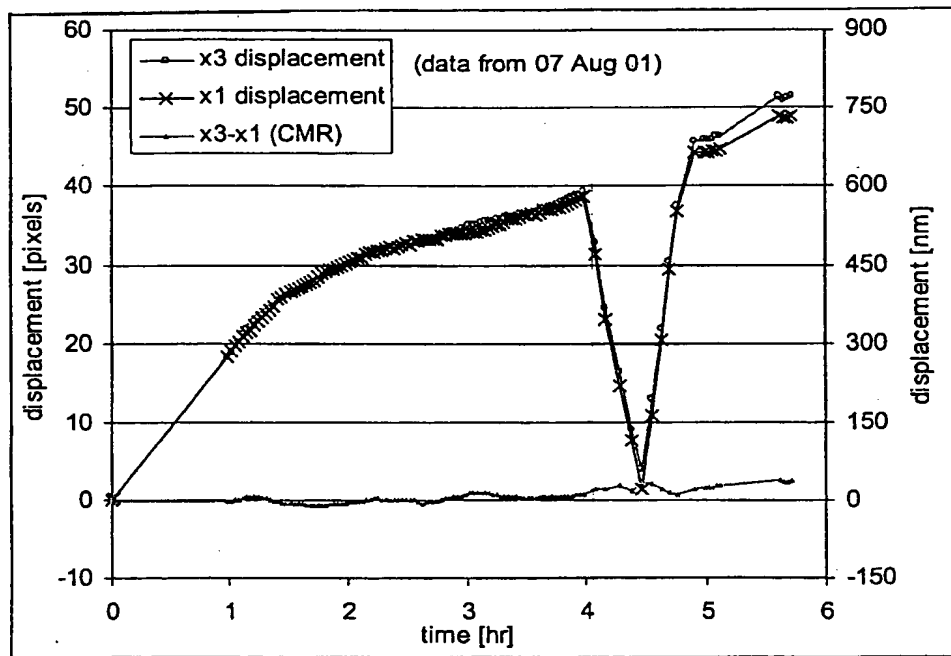


FIG 19



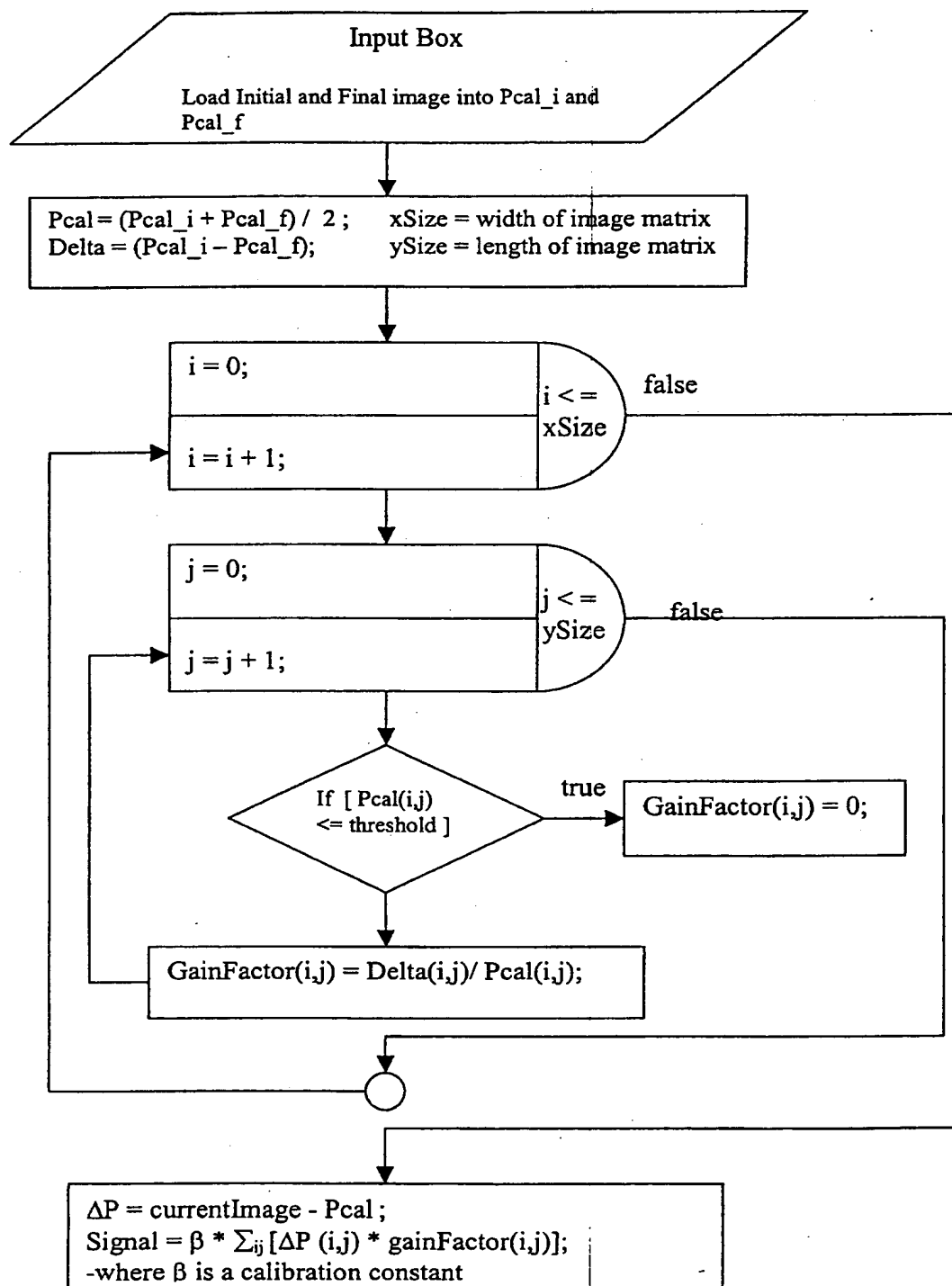


FIG 20

PSEUDOCODE

```
% ----- Load in image -----  
Pcal_i = load in initial TIF image ;  
Pcal_f = load in final TIF image ;  
Pcal = (Pcal_i + Pcal_f) / 2;  
Delta = Pcal_i - Pcal_f;  
  
%----- Calibrating the Gain Factor Matrix -----  
for i = 1 to width of image Matrix  
    for j = 1 to length of image Matrix  
        if (Pcal(i,j) <= threshold )  
            gainFactor(i,j) = 0;  
        else  
            gainFactor(i,j) = delta(i,j) / Pcal(i,j);  
        end  
    end  
end  
  
%----- Calculating the signal -----  
  
 $\Delta P = \text{currentImage} - \text{Pcal};$   
 $\text{Signal} = \beta * \sum_{ij} [\Delta P(i,j) * \text{gainFactor}(i,j)];$ 
```

FIG. 21

FIG 22

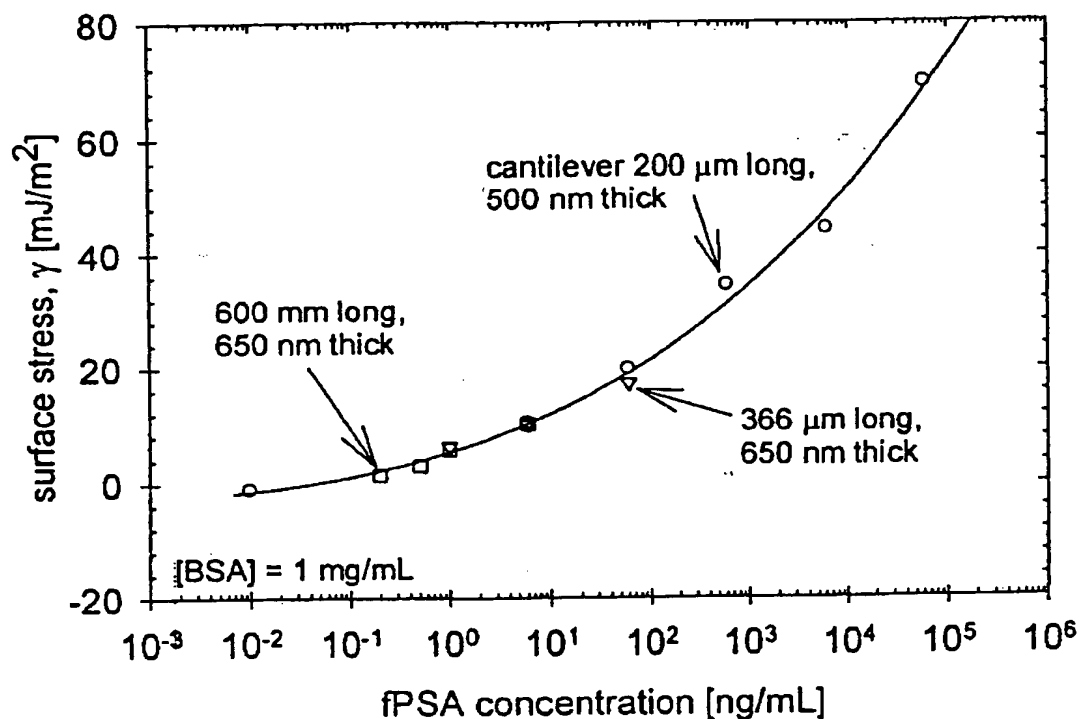
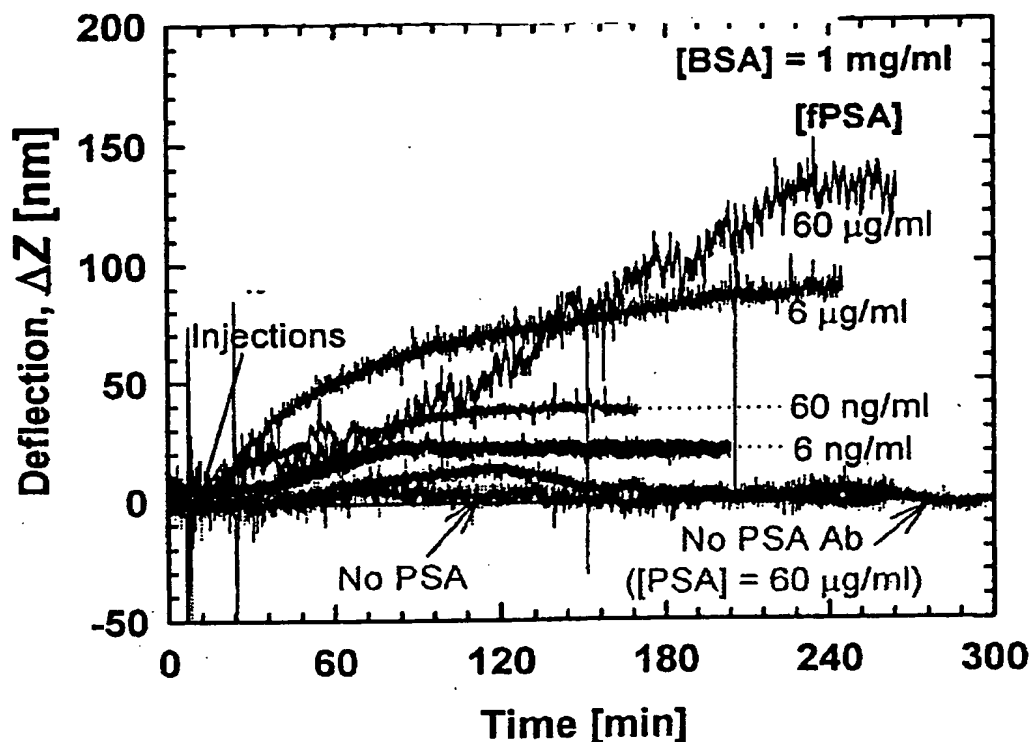
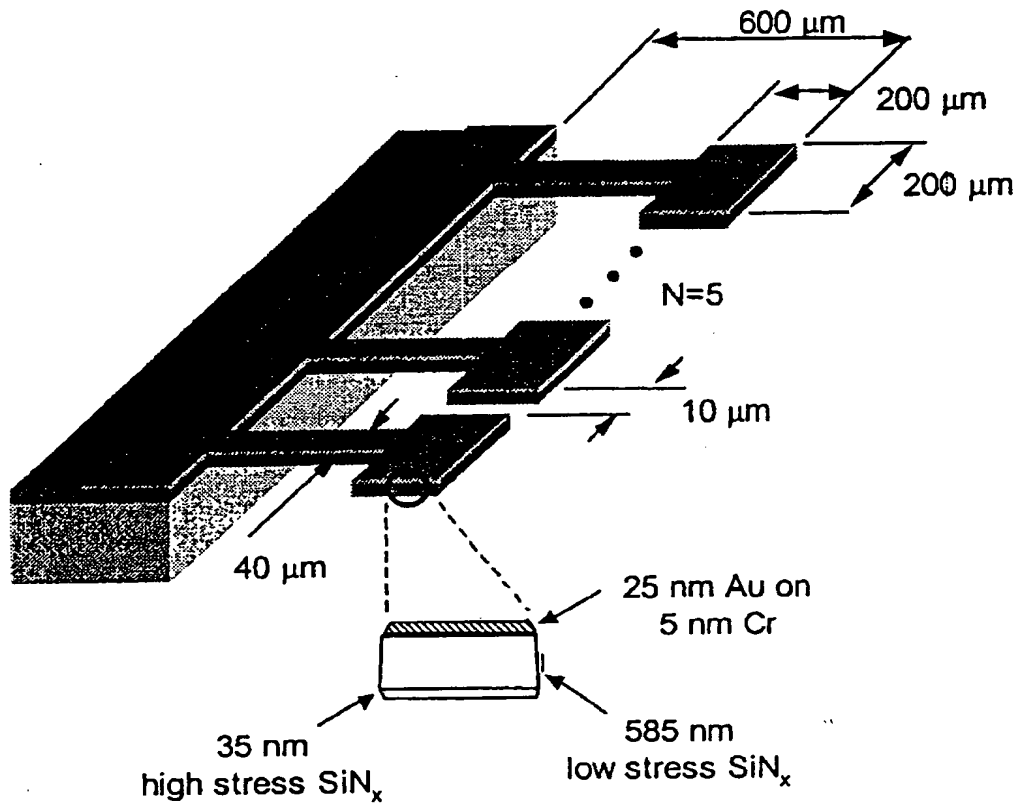


FIG 23

F1624



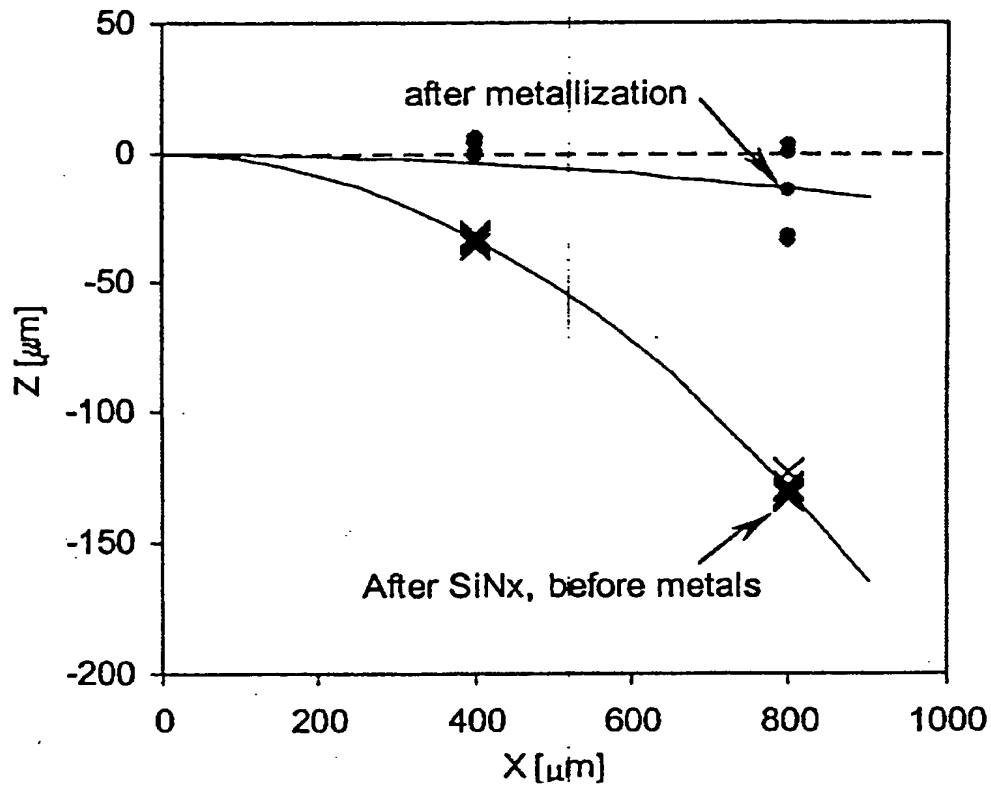


FIG 25

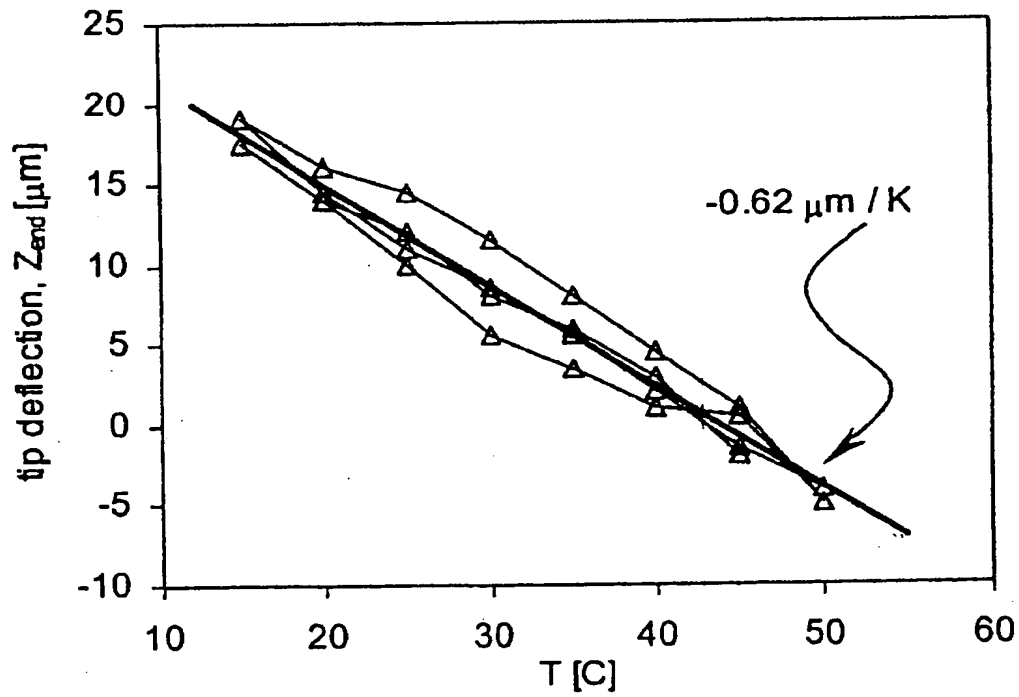


FIG 26

FIG 27

